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June 21, 1994

Commander
U.S. Army Transportation Center
ATZFT-PWE (Musel)
Fort Eustis, Virginia 23604-5332
Attention: Mr. Daniel S. Musel

Re: Fort Story Site Characterization Report (SCR) 80th Division LARC 60 Area Drill Cuttings and Well Development Water

Dear Mr. Musel:

Enclosed is a copy of the laboratory analyses performed on the soil cuttings and groundwater generated during the SCR services for Fort Story.

Groundwater recovered from the monitoring wells was placed in one 55 gallon drum. A composite water sample was obtained from the monitoring well waters bailed from the wells prior to being discharged into the drum. This water sample was analyzed for TCLP metals, TPH, IRC, and PCBs. Laboratory analyses of these parameters were reported below detection limits, indicating that the drum water is free of these contaminants and can be disposed of as non-hazardous waste. A copy of the laboratory analyses is attached.

The soil cuttings from the six soil borings was placed into several 55 gallon drums. A composite soil sample was obtained from the drums for the above analyses. According to the attached laboratory analyses, the TPH of the soil was reported to be 929 mg/kg. This TPH concentration is above the Virginia Department of Environmental Quality's (VDEQ) typical action level for TPH in soil of 100 mg/kg. The analyses also reported a Selenium concentration of 0.013 mg/L. This concentration is below the TCLP Maximum Concentration of Contaminants for Selenium of 1.0 mg/L. Other parameters were reported either below detection limits or within acceptable levels.

Based on the laboratory analyses, the only contaminant of concern is the elevated TPH concentration of the soil. Due to the elevated concentration, the soil will need to be disposed of as a special waste (petroleum contaminated soil). This soil is accepted by certain landfills, and can also be remediated by thermal treatment or biological treatment.

Please contact me concerning the disposal of the containerized water and soil.

Sincerely,

Environmental Restoration Company, Inc.

Jeffrey L. Coron Project Manager

(RT. 1 & OLD KEETON RD.)

GLEN ALLEN, VA 23060

(804) 550-3971 FAX 550-3826

# Certificate of Analysis

Project No. : Project Name : Submitted by : Date Received: Date Issued :

4418 Ft. Story Jeff Coron May 23, 1994 May 31, 1994

Reference Method: SW-846

One soil sample labeled Comp Well Cutting was analyzed for the following TCLP Metals, using TCLP Extraction Method 1311:

X   W	Comp Well Cutting	DL
<u>Analyte</u>	mg/1	mg/1
Arsenic	BDL	0.05
Selenium	0.013	0.005
Mercury	BDL	0.02
Barium	BDL	0.5
Cadmium	BDL	0.5
Chromium	BDL	0.5
Silver	BDL	0.3
Lead	BDL	0.5

Reference Method: SW-846

One soil sample labeled Comp Well Cutting was analyzed for the following:

	Comp Well Cutting	DL	
<u>Analyte</u> Ignitability	mg/kg	mg/kg	Method
Corrosivity	Negative		7.2
pH Reactivity	5.58		9045
Reactivity	Negative		7.3
Sulfide	BDL	50.0	9030
Cyanide	BDL	25.0	9010
% Moisture	3.8%		2000 mg m
EOX	BDL	10.0	9020
Paint Filter	NFL		9095

BDL = Below Detection Limit

NFL = No Free Liquids

Carmela Tombes

Laboratory Manager

(RT. 1 & OLD KEETON RD.)

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#### Certificate of Analysis

Project No. : Project Name :

Submitted by

Date Received:

Date Issued

Ft. Story Jeff Coron May 23, 1994 May 31, 1994

Reference Method: MCAWW Method 418.1

One soil sample labeled Comp Well Cutting was analyzed for TPH.

Sample ID Comp Well Cutting

TPH

Detection Limit

Reference Method: SW-846 Method 8020

One soil sample labeled Comp Well Cutting was analyzed for Benzene, Toluene, Ethyl Benzene, Xylenes.

Samp1	e ID	
Comp	Well	Cutting

Benzene

Toluene

Ethyl Benzene

Xylenes

Detection Limit

2.0

5.0

5.0

10.0

Reference Method: SW-846 Method 8080

One soil sample labeled Comp Well Cutting was analyzed for PCB.

Sample ID Comp Well Cutting

PCB

Detection Limit

BDL = Below Detection Limit

Laboratory Manager

(RT. 1 & OLD KEETON RD.)

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## Certificate of Analysis

Project No. : Project Name :

4418

Submitted by : Date Received:

Date Issued

Ft. Story Jeff Coron May 23, 1994 May 31, 1994

Reference Method: MCAWW Method 418.1

One water sample labeled Comp Well Water was analyzed for TPH.

Sample ID Comp Well Water

mg/1 BDL

Detection Limit

0.9 \*Detection limit raised due to lack of sample volume

Reference Method: SW-846 Method 8020

One water sample labeled Comp Well Water was analyzed for Benzene, Toluene, Ethyl Benzene, Xylenes.

Sample ID Comp Well Water	Benzene ug/l BDL	Toluene $\frac{\text{ug/l}}{\text{BDL}}$	Ethyl Benzene <u>ug/l</u> BDL	Xylenes ug/l BDL
Detection Limit	2.0	5.0	5.0	10.0

Reference Method: SW-846 Method 8080

One water sample labeled Comp Well Water was analyzed for PCB.

Sample ID Comp Well Water

PCB

Detection Limit

BDL = Below Detection Limit

Laboratory Manager

(RT. 1 & OLD KEETON RD )

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### Certificate of Analysis

Project No. : 4418
Project Name : Ft. Story
Submitted by : Jeff Coron
Date Received: May 23, 1994
Date Issued : May 31, 1994

Reference Method: SW-846

One water sample labeled Comp Well Water was analyzed for the following TCLP Metals, using TCLP Extraction Method 1311:

	Comp Well Water	DL
<u>Analyte</u>	mg/1	mg/1
Arsenic	BDL	0.05
Selenium	BDL	0.005
Mercury	BDL	0.02
Barium	BDL	0.5
Cadmium	BDL	0.5
Chromium	BDL	0.5
Silver	BDL	0.1
Lead	BDL	0.5

Reference Method: SW-846

One water sample labeled Comp Well Water was analyzed for the following:

011 59	Comp Well Water	DL	
<u>Analyte</u>	mg/1	mg/1	Method
Ignitability	>60°C		1010
Corrosivity	Negative		7.2
pH Reactivity	6.50		9045
Reactivity	Negative		7.3
Sulfide	BDL	50.0	9030
Cyanide	BDL	25.0	9010
% Moisture			
TOX	0.08	0.05	9020

BDL = Below Detection Limit

Laboratory Manager